## IN THE CLAIMS:

All claims currently pending and under consideration in the referenced application are shown below, in clean form, for clarity. No amendments are proposed herein.

Please note that claims 16 through 47 are underlined because this is a reissue application.

- 1. (Previously Amended) A process for depositing a tungsten silicide film on a substrate comprising:
- depositing a nucleation layer of tungsten silicide on the substrate using a (CVD) process with a silane (SiH<sub>4</sub>) silicon source gas and a reactant gas; and depositing a film of tungsten silicide on the nucleation layer using a (CVD) process by switching to dichlorosilane (SiH<sub>2</sub>Cl<sub>2</sub>) as a silicon source gas such that the dichlorosilane gas reacts with the reactant gas to form the tungsten silicide film at a temperature of less than about 500°C.
- 2. The process as recited in claim 1 and wherein: a reactant gas for reaction with the silane and the dichlorosilane is tungsten hexafluoride (WF<sub>6</sub>).
- 3. (Previously Twice Amended) The process as recited in claim 1 further including: carrying out each of the (CVD) processes in a cold wall (CVD) reaction chamber.
- 4. (Previously Twice Amended) The process as recited in claim 1 further including: carrying out each of the (CVD) processes at a temperature of about 400°C. or less.
- 5. The process as recited in claim 1 and wherein: the nucleation layer is formed with discontinuities or to a very thin thickness on the substrate.
  - 6. The process as recited in claim 1 further including:

mixing the silane or dichlorosilane silicon source gas, the reactant gas and a carrier gas in a premix chamber.

- 7. The process as recited in claim 6 and wherein:
  a flow rate of the carrier gas is about five to ten times a flow rate of the silane or dichlorosilane silicon source gas.
- 8. (Previously Amended) A semiconductor manufacturing process for depositing a tungsten silicide film on a substrate comprising:
- depositing a thin or discontinuous nucleation layer of tungsten silicide on the substrate using a (CVD) process and reacting a silane (SiH<sub>4</sub>) silicon source gas with a reactant gas in a CVD system having a premix chamber for combining the silicon source gas and the reactant gas; and
- depositing a film of tungsten silicide on the nucleation layer using a (CVD) process by switching to dichlorosilane (SiH<sub>2</sub>Cl<sub>2</sub>) as a silicon source gas such that the dichlorosilane gas reacts with the reactant gas to form the tungsten silicide film at a temperature of less than about 500°C.
- 9. The semiconductor manufacturing process as recited in claim 8 and wherein: the reactant gas is tungsten hexafluoride (WF<sub>6</sub>).
- 10. (Previously Twice Amended) The semiconductor manufacturing process as recited in claim 8 further including: performing each of the (CVD) processes in a cold wall (CVD) system.
  - 11. The semiconductor manufacturing process as recited in claim 10 and wherein:

the cold wall (CVD) system includes the premix chamber, a reaction chamber, a graphite boat for holding a plurality of silicon wafers, and means for heating the silicon wafers.

- 12. The semiconductor manufacturing process as recited in claim 8 and wherein: the substrate is silicon wafers and the wafers are heated to a temperature of between 200° to 500°C.
- 13. The semiconductor manufacturing process as recited in claim 8 and wherein: deposition of the nucleation layer occurs in about 1 to about 25 seconds.
- 14. The semiconductor manufacturing process as recited in claim 8 and wherein: a carrier gas includes a mixture of Argon, Nitrogen, and Helium.
- 15. The semiconductor manufacturing process as recited in claim 14 and wherein: a flow rate of the silane silicon source gas is about 400 sccm; a flow rate of the reactant gas is about 4 sccm; and
- a flow rate of the carrier gas is about 2800 sccm.
- 16. The semiconductor manufacturing process as recited in claim 1 and wherein:

  said depositing said nucleation layer of tungsten silicide and said depositing said film of tungsten

  silicide occur at a substantially equivalent temperature.
- 17. The semiconductor manufacturing process as recited in claim 8 and wherein:

  said depositing said thin or discontinuous layer of tungsten silicide and said depositing said film

  of tungsten silicide occur at a substantially equivalent temperature.

18. (Previously Twice Amended) A process for depositing a tungsten silicide film on a substrate using a (CVD) process, comprising:
introducing said substrate into a reaction chamber of said (CVD) process;
depositing a tungsten silicide nucleation layer on said substrate by introducing a silane silicon source gas and a reactant gas into said reaction chamber such that said silane silicon source gas reacts with said reactant gas to form the tungsten silicide nucleation layer; and depositing a film of tungsten silicide on said nucleation layer of tungsten silicide by switching said silane silicon source gas to a dicholorosilane silicon source gas such that the dicholorosilane silicon source gas reacts with the reactant gas to form the tungsten silicide film, said switching said silane silicon source gas to said dicholorosilane silicon source gas occurring without interrupting said (CVD) process, wherein said depositing said

tungsten silicide nucleation layer and said depositing said film of tungsten silicide occur

19. (Previously Amended) The process as recited in claim 18 further including: introducing tungsten hexafluoride (WF<sub>6</sub>) as a reactant gas for reaction with the silane silicon source gas and the dichlorosilane silicon source gas.

at a substantially equivalent temperature.

- 20. (Previously Twice Amended) The process as recited in claim 18 further including: carrying out the deposition of said tungsten silicide nucleation layer and said tungsten silicide film in a cold wall (CVD) reaction chamber.
- 21. (Previously Twice Amended) The process as recited in claim 18 further including: carrying out the deposition of said tungsten silicide nucleation layer and said tungsten silicide film at a temperature of about 400°C or less.
  - 22. (Previously Amended) The process as recited in claim 18 further including:

mixing the silane silicon source gas or dichlorosilane silicon source gas, the reactant gas, and a carrier gas in a premix chamber.

- 23. (Previously Amended) The process as recited in claim 22 wherein:

  a flow rate of the carrier gas is about five to ten times a flow rate of said silane silicon source gas
  or said dichlorosilane silicon source gas.
- 24. (Previously Amended) A semiconductor manufacturing process for depositing a tungsten silicide film on a substrate comprising:
- depositing a discontinuous nucleation layer of tungsten silicide on the substrate using a (CVD)

  process and reacting a silane (SiH<sub>4</sub>) silicon source gas with a reactant gas in a CVD

  system having a premix chamber for combining the silicon source gas and the reactant gas; and
- depositing a film of tungsten silicide on the discontinuous nucleation layer using a (CVD)

  process by switching to dichlorosilane (SiH<sub>2</sub>Cl<sub>2</sub>) as a silicon source gas such that the

  dichlorosilane gas reacts with the reactant gas to form the tungsten silicide film.
- 25. The semiconductor manufacturing process as recited in claim 24 and wherein: said depositing said discontinuous nucleation layer of tungsten silicide and said depositing said film of tungsten silicide occur at a substantially equivalent temperature.
- 26. The semiconductor manufacturing process as recited in claim 24 further including:
  introducing tungsten hexafluoride (WF<sub>6</sub>) as the reactant gas.
- 27. (Previously Amended) The semiconductor manufacturing process as recited in claim 24 further including:

performing each of the (CVD) processes in a cold wall (CVD) system.

- 28. The semiconductor manufacturing process as recited in claim 27 wherein:
  the cold wall (CVD) system includes the premix chamber, a reaction chamber, a graphite boat for
  holding a plurality of silicon wafers, and means for heating the silicon wafers.
- 29. The semiconductor manufacturing process as recited in claim 24 wherein:

  heating the substrate to a temperature of between about 200° and 500°C., and wherein said

  substrate comprises a silicon wafer.
- 30. The semiconductor manufacturing process as recited in claim 24 further including:

  depositing of the discontinuous nucleation layer for a timespan between about 1 and 25 seconds.
- 31. The semiconductor manufacturing process as recited in claim 24 further including:

  a carrier gas comprising a mixture of Argon, Nitrogen, and Helium.
- 32. The semiconductor manufacturing process as recited in claim 31 further including:
  introducing the silane silicon source gas at about 400 sccm;
  introducing the reactant gas at about 4 sccm; and
  introducing a carrier gas at about 2800 sccm.
- 33. (Previously three times Amended) A process for depositing a tungsten silicide film on a substrate consisting essentially of:

depositing a discontinuous nucleation layer of tungsten silicide on the substrate using a (CVD)

process with a silane (SiH<sub>4</sub>) silicon source gas and a reactant gas;

- depositing a film of tungsten silicide on the discontinuous nucleation layer using a (CVD)

  process by switching to dichlorosilane (SiH<sub>2</sub>Cl<sub>2</sub>) as a silicon source gas such that the

  dichlorosilane gas reacts with the reactant gas to form the tungsten silicide film; and

  wherein said depositing said discontinuous nucleation layer of tungsten silicide and said

  depositing said film of tungsten silicide occur at a substantially equivalent temperature.
- 34. The process as recited in claim 33 further including: introducing tungsten hexafluoride (WF<sub>6</sub>) as a reactant gas for reaction with the silane and the dichlorosilane.
- 35. The process as recited in claim 33 further including: carrying out each of the (CVD) processes in a cold wall (CVD) reaction chamber.
- 36. The process as recited in claim 33 further including: carrying out each of the (CVD) processes at a temperature of about 400°C. or less.
- 37. The process as recited in claim 33 further including:
  mixing the silane or dichlorosilane silicon source gas, the reactant gas and a carrier gas in a
  premix chamber.
- 38. The process as recited in claim 37 wherein:

  a flow rate of the carrier gas is about five to ten times a flow rate of the silane or dichlorosilane

  silicon source gas.

39. (Previously Amended) A semiconductor manufacturing process for depositing a tungsten silicide film on a substrate consisting essentially of:

- depositing a discontinuous nucleation layer of tungsten silicide on the substrate using a (CVD)

  process and reacting a silane (SiH<sub>4</sub>) silicon source gas with a reactant gas in a CVD

  system having a premix chamber for combining the silicon source gas and the reactant gas; and
- depositing a film of tungsten silicide on the discontinuous nucleation layer using a (CVD)

  process by switching to dichlorosilane (SiH<sub>2</sub>Cl<sub>2</sub>) as a silicon source gas such that the

  dichlorosilane gas reacts with the reactant gas to form the tungsten silicide film.
- 40. The semiconductor manufacturing process as recited in claim 39 and wherein: said depositing said discontinuous nucleation layer of tungsten silicide and said depositing said film of tungsten silicide occur at a substantially equivalent temperature.
- 41. The semiconductor manufacturing process as recited in claim 39 further including:
  introducing tungsten hexafluoride (WF<sub>6</sub>) as the reactant gas.
- 42. The semiconductor manufacturing process as recited in claim 39 further including:

  performing each of the (CVD) processes in a cold wall (CVD) system.
- 43. The semiconductor manufacturing process as recited in claim 42 wherein:

  the cold wall (CVD) system includes the premix chamber, a reaction chamber, a graphite boat for holding a plurality of silicon wafers, and means for heating the silicon wafers.
  - 44. The semiconductor manufacturing process as recited in claim 39 wherein:

heating the substrate to a temperature of between about 200° and 500°C., and wherein said substrate comprises a silicon wafer.

- 45. The semiconductor manufacturing process as recited in claim 39 further including:

  depositing of the discontinuous nucleation layer for a timespan between about 1 and 25 seconds.
- 46. The semiconductor manufacturing process as recited in claim 39 further including:

  a carrier gas comprising a mixture of Argon, Nitrogen, and Helium.
- 47. The semiconductor manufacturing process as recited in claim 46 further including:
  introducing the silane silicon source gas at about 400 sccm;
  introducing the reactant gas at about 4 sccm; and
  introducing a carrier gas at about 2800 sccm.
  - 48. (Previously Canceled)
  - 49. (Previously Canceled)
  - 50. (Previously Canceled)